SEQUENCE LISTING

- (1) GENERAL INFORMATION
- (ii) TITLE OF THE INVENTION: NEW GLUTATHIONE-S-TRANSFERASE
- (iii) NUMBER OF SEQUENCES: 3
- (iv) CORRESPONDENCE ADDRESS:
 - (A) ADDRESSEE: Incyte Pharmaceuticals, Inc.
 - (B) STREET: 3174 Porter Drive
 - (C) CITY: Palo Alto
 - (D) STATE: CA
 - (E) COUNTRY: USA
 - (F) ZIP: 94304
- (v) COMPUTER READABLE FORM:
 - (A) MEDIUM TYPE: Diskette
 - (B) COMPUTER: IBM Compatible
 - (C) OPERATING SYSTEM: DOS
 - (D) SOFTWARE: FastSEQ for Windows Version 2.0
- (vi) CURRENT APPLICATION DATA:
 - (A) APPLICATION NUMBER: To Be Assigned
 - (B) FILING DATE: Herewith
 - (C) CLASSIFICATION:
- (vii) PRIOR APPLICATION DATA:
 - (A) APPLICATION NUMBER:
 - (B) FILING DATE:
- (viii) ATTORNEY/AGENT INFORMATION:
 - (A) NAME: Billings, Lucy J.
 - (B) REGISTRATION NUMBER: 36,749
 - (C) REFERENCE/DOCKET NUMBER: PF-0430 US
- (ix) TELECOMMUNICATION INFORMATION:
 - (A) TELEPHONE: 650-855-0555
 - (B) TELEFAX: 650-845-4166
 - (C) TELEX:
 - (2) INFORMATION FOR SEQ ID NO:1:
- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 226 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (A) LIBRARY: BLADTUT04
 - (B) CLONE: 1554593

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

Met Gly Pro Leu Pro Arg Thr Val Glu Leu Phe Tyr Asp Val Leu Ser 10 Pro Tyr Ser Trp Leu Gly Phe Glu Ile Leu Cys Arg Tyr Gln Asn Ile 25 Trp Asn Ile Asn Leu Gln Leu Arg Pro Ser Leu Ile Thr Gly Ile Met 40 Lys Asp Ser Gly Asn Lys Pro Pro Gly Leu Leu Pro Arg Lys Gly Leu Tyr Met Ala Asn Asp Leu Lys Leu Leu Arg His His Leu Gln Ile Pro 75 70 Ile His Phe Pro Lys Asp Phe Leu Ser Val Met Leu Glu Lys Gly Ser 95 85 90 Leu Ser Ala Met Arg Phe Leu Thr Ala Val Asn Leu Glu His Pro Glu 105 100 Met Leu Glu Lys Ala Ser Arg Glu Leu Trp Met Arg Val Trp Ser Arg 125 120 Asn Glu Asp Ile Thr Glu Pro Gln Ser Ile Leu Ala Ala Ala Glu Lys 140 135 Ala Gly Met Ser Ala Glu Gln Ala Gln Gly Leu Leu Glu Lys Ile Ala 155 150 Thr Pro Lys Val Lys Asn Gln Leu Lys Glu Thr Thr Glu Ala Ala Cys 170 165 Arg Tyr Gly Ala Phe Gly Leu Pro Ile Thr Val Ala His Val Asp Gly 185 190 Gln Thr His Met Leu Phe Gly Ser Asp Arg Met Glu Leu Leu Ala His 200 Leu Leu Gly Glu Lys Trp Met Gly Pro Ile Pro Pro Ala Val Asn Ala 210 215 220 Arg Leu 225

(2) INFORMATION FOR SEQ ID NO:2:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 1035 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (A) LIBRARY: BLADTUT04
 - (B) CLONE: 1554593

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

GGGCAGCCTC	TGCCGGGTTC	CGGGAAAAGG	AGCTCCTGCT	GCCACTGCTC	TTCCGGAGCC	60
TGCAGCATGG	GGCCCCTGCC	GCGCACCGTG	GAGCTCTTCT	ATGACGTGCT	GTCCCCCTAC	120
		CCTGTGCCGG				180
TTGCGGCCCA	GCCTCATAAC	AGGGATCATG	AAAGACAGTG	GAAACAAGCC	TCCAGGTCTG	240
		CATGGCAAAT				300
		GGATTTCTTG				360
GCCATGCGTT	TCCTCACCGC	CGTGAACTTG	GAGCATCCAG	AGATGCTGGA	GAAAGCGTCC	420
CGGGAGCTGT	GGATGCGCGT	CTGGTCAAGG	AATGAAGACA	TCACCGAGCC	GCAGAGCATC	480
		TGGTATGTCT				540
ATCGCAACGC	CAAAGGTGAA	GAACCAGCTC	AAGGAGACCA	CTGAGGCAGC	CTGCAGATAC	600
		CACCGTGGCC				660
		GCTGGCGCAC			GGGCCCTATA	720
CCTCCAGCCG	TGAATGCCAG	ACTTTAAGAT	TGCCCGGAGG	AAGCAAACTC	TTCGTATAAA	780
AAAAGCAGGC	CATCTGCTTA	ACCCTTGGCT	CCACCATAAG	GCACTGGGAC	TCGGATTTCT	840

CTATCTGATA GAGGTATTTT CTGTGGCCCT GGGAGCTGTC TGTCTTTCCC CTACCCCCAA 900
GGATGCCAGG AAGACGTCCA CCATTAGCCA TGTGGCAACC TTTACTTCTA TGCCTCACAA
GTGCCTTTCA GAGAGCCCCA ATTCTGCTTT CCCACAAAAT AAACCTAATG CCATCAGGCA 1020
AAACAAAAAA AAAAA 1035

(2) INFORMATION FOR SEQ ID NO:3:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 226 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (vii) IMMEDIATE SOURCE:
 - (A) LIBRARY: GenBank
 - (B) CLONE: ?

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

Met 1	Gly	Pro	Ala	Pro 5	Arg	Val	Leu	Glu	Leu 10	Phe	Tyr	Asp	Val	Leu 15	Ser
			Trp 20					25				_	30		
		35	Lys				40			•		45			
	50		Gly			55					60		_	_	
65			Lys		70					75					80
			Pro	85					90			_	_	95	
			Met 100					105					110		
		115	Lys				120					125			
	130		Ile	-		135					140				
145			Ala		150					155					160
			Val	165					170			-		175	_
			Ala 180					185					190	_	~
		195	Met				200					205			_
Leu	Leu 210	Gly	Glu	Lys	Trp	Met 215	Gly	Pro	Val	Pro	Pro 220	Thr	Leu	Asn	Ala
Arg 225	Leu														